

Title (en)

Optical device for adjusting the spatial distribution of a laser beam

Title (de)

Optische Vorrichtung zur Einstellung der Raumverteilung eines Laserstrahls

Title (fr)

Dispositif optique de réglage de la distribution spatiale d'un faisceau laser

Publication

EP 2804027 B1 20170607 (FR)

Application

EP 14167315 A 20140507

Priority

FR 1301101 A 20130514

Abstract (en)

[origin: US2014340471A1] Optical device for adjusting the spatial distribution of a laser beam. The device (1) comprises an assembly (2) of two matrices (3, 4) of lenses (5a), said matrices (3, 4) being identical and arranged parallel to one another with a uniform spacing between them, said assembly (2) being traversable by a laser beam (6), and controllable activating means (10) capable of modifying the spacing between the two matrices (3, 4) to create a zoom effect.

IPC 8 full level

G02B 3/00 (2006.01); **G02B 19/00** (2006.01); **G02B 27/09** (2006.01)

CPC (source: EP US)

G02B 3/0062 (2013.01 - EP US); **G02B 19/0014** (2013.01 - EP US); **G02B 19/0052** (2013.01 - EP US); **G02B 27/0927** (2013.01 - EP US); **G02B 27/0961** (2013.01 - US)

Citation (examination)

- US 5612821 A 19970318 - SCHMUTZ LAWRENCE E [US]
- EP 1873559 A1 20080102 - NEC DISPLAY SOLUTIONS LTD [JP]

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2804027 A1 20141119; **EP 2804027 B1 20170607**; FR 3005753 A1 20141121; FR 3005753 B1 20160916; IL 232596 A0 20140831; IL 232596 A 20171130; US 10379367 B2 20190813; US 2014340471 A1 20141120

DOCDB simple family (application)

EP 14167315 A 20140507; FR 1301101 A 20130514; IL 23259614 A 20140513; US 201414276520 A 20140513